

REMARKS

Claims 1-4, 6-11, 14 and 16-24 are pending in the present application. Claims 1, 3, 8, 9, and 17 have been amended herein. No new matter has been added. In view of the following remarks, allowance of the application is respectfully requested.

All claims have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Kushihi (U.S. Patent Application Publication No. 2002/0044092, hereinafter "Kushihi") in view of Koskiniemi, *et al.* (U.S. Patent No. 6,882,317, hereinafter "Koskiniemi"). Applicant respectfully traverses this rejection.

Claim 1, as amended, specifically recites components comprising "an inductive element and a capacitive element electrically connected to the patch antenna at two different points, the inductive element being electrically connected between the two points and the capacitive element being electrically connected between the two points in parallel with the inductive element; and a shorting tab electrically connected between the ground plane and the patch antenna." Each of the other independent claims have been amended to include similar language. With this amendment, the independent claims refer to planar antenna assemblies that differ from the cited art by the precise arrangement of the components for reactively tuning the patch antenna.

Kushihi discloses a LC member electrically connected any way to the patch inductor. The concrete physical attachment between the tuning components and the patch antenna cannot be known from Kushihi's document. Further, Kushihi clearly does not teach or suggest an inductive element and a capacitive element electrically connected in parallel between two different points of the patch antenna.

Koskiniemi discloses a capacitive element (e.g., item 312 of Figure 3 or items 412 and 413 of Figure 4) and an inductive element (compare item 314 of Figure 3 or item 414 of Figure 4) that are arranged between the patch inductor (item 311) and ground. This is different to the arrangement of the present invention and has obviously another physical effect. Further, the arrangement of the invention is less volume-consuming because the tuning components are attached to the main surface of the patch antenna and hence are geometrically arranged in parallel to the patch antenna using the otherwise free space between patch remaining portions of the mobile phone, for example.

Further, one of ordinary skill would not consider Koskiniemi's document as being relevant prior art because Koskiniemi refers to antenna arrangements teaching away from multiband antennas. It is proposed to provide at least two adjacent but separate antennas with different operating bands (compare column 2, lines 10 to 11). Claim 1, on the other hand, requires that the components are for reactively tuning the planar antenna by tuning a first frequency inductively and a second frequency.

Further Koskiniemi discloses patch antennas comprising a slot. In order to reduce detuning by user interaction the slot is omitted at the new antenna. One of ordinary skill who is aware of the slot's increased detuning by user interaction would not consider Koskiniemi's document as Koskiniemi shows patch antennas having a slot.

It is therefore respectfully submitted that the presently pending claims are allowable over the references of record.

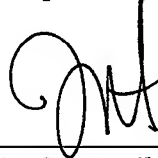
In view of the above, Applicant respectfully submits that this response complies with 37 C.F.R. § 1.116. Applicant further submits that the claims are in condition for allowance. No new matter has been added by this amendment. If the Examiner should

have any questions, please contact Applicant's attorney at the number listed below. The Commissioner is hereby authorized to charge any fees that are due, or credit any overpayment, to Deposit Account No. 50-1065.

9/25/09

Date

Respectfully submitted,



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